



14230 U.S. PTO

**UTILITY APPLICATION**

Attorney Docket No.: IMEC182.001C1C1

First Named Inventor: Alessandra Satta

Title: **METHOD FOR BOTTOMLESS DEPOSITION OF  
BARRIER LAYERS IN INTEGRATED CIRCUIT  
METALLIZATION SCHEMES**

Express Mail Label No.: EV 351352000 US

**Direct all correspondence to Customer No.: 20995**

Date: December 8, 2003

Page 1 of 2

**Mail Stop Patent Application**

United States Patent and Trademark Office

PO Box 1450

Alexandria, VA 22313-1450

22141 U.S. PTO  
10/731656

The following enclosures are transmitted herewith to be filed in the patent application of:

## Inventor(s):

- |                      |                         |
|----------------------|-------------------------|
| 1. Alessandra Satta  | 2. Karen Maex           |
| 3. Kai-Erik Elers    | 4. Ville Antero Saanila |
| 5. Pekka Juha Soinen | 6. Suvi P. Haukka       |

**APPLICATION ELEMENTS:**

(X) Specification in 25 pages.

(X) Drawings in 3 sheets.

(X) Declaration by Inventors in 4 pages.

- Copy from parent application
- Incorporation by Reference. The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
- Examiner in prior application: David Nhu
- Group Art Unit of prior application: 2818

**CONTINUITY INFORMATION:**

Application	Relationship	Parent App. No.	Filing Date	Status
This Application	Continuation of	10/123,492	04/15/02	Pending
10/123,492	Continuation of	09/644,636	08/23/00	Issued as Pat. No. 6,391,785
09/644,636	Non-Provisional claiming priority to	60/150,486	08/24/99	Closed
09/644,636	Non-Provisional claiming priority to	60/159,799	10/15/99	Closed
09/644,636	Non-Provisional claiming priority to	60/176,944	01/18/00	Closed

<b>UTILITY APPLICATION</b>	Attorney Docket No.: IMEC182.001C1C1
	First Named Inventor: Alessandra Satta
	Title: <b>METHOD FOR BOTTOMLESS DEPOSITION OF BARRIER LAYERS IN INTEGRATED CIRCUIT METALLIZATION SCHEMES</b>
	Express Mail Label No.: EV 351352000 US
<b>Direct all correspondence to Customer No.: 20995</b> <span style="float: right;">Date: December 8, 2003 Page 2 of 2</span>	

(X) Incorporation by Reference. The entire disclosure of the prior applications is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

**OTHER APPLICATION PARTS:**

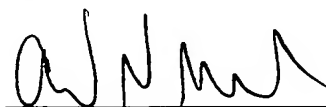
- (X) An Information Disclosure Statement in 1 page.
- (X) A PTO Form 1449 with 69 references that are **not** included.
- (X) Return prepaid postcard.

**FILING FEES:**

FEE CALCULATION				
FEE TYPE		FEE CODE	CALCULATION	TOTAL
Basic Utility		1001 (\$770)		\$770
Non-English Spec.		1053 (\$130)		\$0
Excess Claims > 20	25 - 20 = 5	1202 (\$18)	5 x 18 =	\$90
Independent > 3	3 - 3 = 0	1201 (\$86)	0 x 86 =	\$0
Multiple Claim		1203 (\$290)		\$0
			<b>TOTAL FEE DUE</b>	<b>\$860</b>

(X) A check in the amount of \$860 to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.



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MAIL STOP PATENT APPLICATION  
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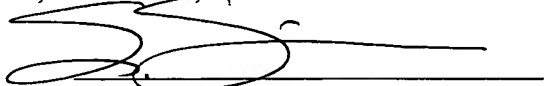
**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

**Attorney Docket No.** : IMEC182.001C1C1  
**Applicant(s)** : Satta et al.  
**For** : METHOD FOR BOTTOMLESS DEPOSITION  
OF BARRIER LAYERS IN INTEGRATED  
CIRCUIT METALLIZATION SCHEMES  
**Attorney** : Andrew N. Merickel  
**"Express Mail"**  
**Mailing Label No.** : EV 351352000 US  
**Date of Deposit** : December 8, 2003

I hereby certify that the accompanying

Transmittal letter; specification in 25 pages; 3 sheets of drawings; copy of  
**SIGNED** Declaration by Inventor in 4 pages; Information Disclosure Statement  
in 1 page and PTO Form 1449 in 3 pages listing 69 references that are **not**  
enclosed; Check for Filing Fee; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to  
Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Sabrina Simmons

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